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/PTO/SB/21 (08-00)

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TRANSMITTAL FORM

(To be used for all correspondence
after initial filing)

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| Application Number | 10/050,054 |
| Filing Date | January 16, 2002 |
| First Named Inventor | Emad S. Alnemri |
| Group Art Unit | 1646 |
| Examiner Name | |
| Attorney Docket No. | 480140.474 |

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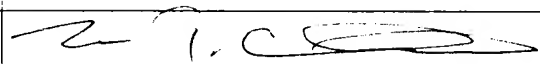
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ENCLOSURES (check all that apply)

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| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement; Forms PTO-1449 (4 Sheets) <input checked="" type="checkbox"/> Cited References (41) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application | <input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund | <input type="checkbox"/> CD(s), Number of CD(s) _____ <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Additional Enclosure(s) (please identify below): _____ |
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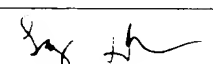
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|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Individual Name | William T. Christiansen, Ph.D. Reg. No. 44,614 |  00500 PATENT TRADEMARK OFFICE |
| Signature |  | |
| Date | November 26, 2002 | |

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on the date specified below.

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| Signature |  |
| Date | November 26, 2002 |



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants : Emad S. Alnemri
Application No. : 10/050,054
Filed : January 16, 2002
For : INHIBITION OF INTERLEUKIN-1- β SECRETION BY CARD
PROTEINS

Art Unit : 1646
Docket No. : 480140.474
Date : November 26, 2002

Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references are enclosed).

As to any reference supplied, applicant does not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserves the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

Emad S. Alnemri

Seed Intellectual Property Law Group PLLC



William T. Christiansen, Ph.D.

Registration No. 44,614

WTC:ljd

Enclosures:

Postcard

Form PTO/SB/21

Forms PTO-1449 (4 Sheets)

Cited References (41)

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| FORM PTO-1449 (REV 7-80) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY DOCKET NO. 480140.474 | | APPLICATION NO. 10/050.054 | |
| INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i> | | | | APPLICANT Emad S. Alnemri | | GROUP ART UNIT 1646 | |
| | | | | FILING DATE January 16, 2002 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | BA | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION | | |
| | BB | | | | YES NO | | |
| OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i> | | | | | | | |
| | BC | Chou et al., "Solution structure of the RAIDD CARD and model for CARD/CARD interaction in caspase-2 and caspase-9 recruitment." <i>Cell</i> 94(2):171-180, July 24, 1998. | | | | | |
| | BD | Druilhe et al., "Regulation of IL-1 β generation by Pseudo-ICE and ICEBERG, two dominant negative caspase recruitment domain proteins." <i>Cell Death and Differentiation</i> 8(6):649-657, June 2001. | | | | | |
| | BE | Eberstadt et al., "NMR structure and mutagenesis of the FADD (Mort1) death-effector domain." <i>Nature</i> 392(6679):941-945, April 30, 1998. | | | | | |
| | BF | Guiet and Vito, "Caspase recruitment domain (CARD)-dependent cytoplasmic filaments mediate bcl10-induced NF- κ B activation." <i>J. Cell Biol.</i> 148(6):1131-1139, March 20, 2000. | | | | | |
| | BG | Hofmann, "The modular nature of apoptotic signaling proteins." <i>Cell. Mol. Life Sci.</i> 55(8-9):1113-1128, July 1999. | | | | | |
| | BH | Hofmann et al., "The CARD domain: a new apoptotic signalling motif." <i>Trends Biochem. Sci.</i> 22(5):155-156, May 1997. | | | | | |
| | BI | Howard et al., "IL-1-converting enzyme requires aspartic acid residues for processing of the IL-1 β precursor at two distinct sites and does not cleave 31-kDa IL-1 α ." <i>J. Immunol.</i> 147(9):2964-2969, November 1, 1991. | | | | | |
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| | BO | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | | |
| * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s). | | | | | | | |

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(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.

480140.474

APPLICATION NO.

10/050,054

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Emad S. Alnemri

FILING DATE

January 16, 2002

GROUP ART UNIT

1646

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FIG. NO. DATE IF APPROPRIATE |
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| AA | | | | | | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION YES NO |
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| AB | EP 1 033 401 A2 | 09/06/00 | EPO | |
| AC | WO 01/90156 | 11/29/01 | WIPO | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| AD | EMBL "Online! Database, Accession No. AA070591, October 3, 1996. |
| AE | Genbank Accession No. AA046000, September 6, 1996. |
| AF | Genbank Accession No. AA070591, October 27, 1997. |
| AG | Genbank Accession No. AC023068, March 3, 2000. |
| AH | Genbank Accession No. AC027011, April 27, 2000. |
| AI | Genbank Accession No. AP001153, March 22, 2001. |
| AJ | Genbank Accession No. AP002787, July 13, 2000. |
| AK | Genbank Accession No. XP_005312, October 16, 2001. |
| AL | Genbank Accession No. XP_040782, October 16, 2001. |
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| AP | Ahmad et al., "CRADD, a novel human apoptotic adaptor molecule for caspase-2, and FasL/tumor necrosis factor receptor-interacting protein RIP." <i>Cancer Res.</i> 57(4):615-619, February 14, 1997. |
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| INFORMATION DISCLOSURE STATEMENT (Additional sheets if necessary) | | APPLICANT Emad S. Alnemri | |
| | | FILING DATE January 16, 2002 | GROUP ART UNIT 1646 |

U.S. PATENT DOCUMENTS

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| CD | Miura et al., "Induction of apoptosis in fibroblasts by IL-1 β -converting enzyme, a mammalian homolog of the <i>C. elegans</i> cell death gene <i>ced-3</i> ," <i>Cell</i> 75(4):653-660, November 19, 1993. |
| CE | Muzio et al., "An induced proximity model for caspase-8 activation," <i>J. Biol. Chem.</i> 273(5):2926-2930, January 30, 1998. |
| CF | Nett-Fiordalisi et al., "Characterization and Activation of Murine Interleukin-1 β (IL-1 β) Converting Enzyme," <i>J. Cell Biochem.</i> 17B:117, 1993. |
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| CH | Siegel et al., "Death-effector filaments: novel cytoplasmic structures that recruit caspases and trigger apoptosis," <i>J. Cell Biol.</i> 141(5):1243-1253, June 1, 1998. |
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480140.474

APPLICATION NO.

10/050.054

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(Use several sheets if necessary)

APPLICANT

Emad S. Alnemri

FILING DATE

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GROUP ART UNIT

1646

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| | DF | | | | | |
| | DG | | | | | |
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| | DJ | | | | | |

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| | DK | Walker et al., "Crystal structure of the cysteine protease interleukin-1 β -converting enzyme: a (p20/p10) ₂ homodimer." <i>Cell</i> 78(2):343-352. July 29, 1994. |
| | DL | Wilson et al., "Structure and mechanism of interleukin-1 β converting enzyme." <i>Nature</i> 370(6487):270-275. July 28, 1994. |
| | DM | Yuan et al., "The C. elegans cell death gene ced-3 encodes a protein similar to mammalian interleukin-1 β -converting enzyme." <i>Cell</i> 75(4):641-652. November 19, 1993. |
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